



[Document Name] ABSTRACT

[Abstract]

[Problem] To provide an optical recording material
employing chalcogenide glass which can achieve
5 high-capacity optical recording.

[Means of Solution] The optical recording material
1 of the present invention comprises chalcogenide glass
2 having metal particles 4 dispersed therein. In the
optical recording material 1, irradiation of light
10 results in light doping of the metal particles 4,
producing a change in the optical properties of the
optical recording material 1, and recording is thus
accomplished by the difference in properties. The
optical recording material 1 has high transmittance
15 for the recording light, and is therefore capable of
multilayer recording wherein multiple recordings are
performed in the direction of depth and multiplex
recording by hologram recording, so that high-capacity
recording can be achieved.

[Selected Drawing] Fig. 1